

Based Upon: PCT/EP2004/006250

Amendments to the Specification

Please insert the following subtitle and paragraph on a separate page following the last page of the application:

ABSTRACT OF THE DISCLOSURE

The invention relates to a method for producing a hardened profiled structural part from a hardenable steel alloy with cathodic corrosion protection. The method includes applying a coating to a sheet made of a hardenable steel alloy, wherein the coating comprises zinc, and the coating further comprises one or several elements with affinity to oxygen in a total amount of 0.1 weight-% to 15 weight-% in relation to the total coating. After applying the coating, the coated sheet steel is roller-profiled in a profiling device, so that the sheet tape is formed into a roller-formed profiled strand. Thereafter, the coated sheet steel is brought, at least in parts and with the admission of atmospheric oxygen, to a temperature required for hardening and is heated to a structural change required for hardening. A skin made of an oxide of the element(s) with affinity to oxygen is formed on the surface of the coating. After sufficient heating the sheet is cooled, wherein the rate of cooling is set in such a way that hardening of the sheet alloy is achieved. The invention further relates to a corrosion-protection layer and a profiled structural element.